

LARRY
BEARD



United States
Environmental Protection
Agency

15th - 19th

15 wells

15 wells

442- Corp
2149

CD-3

CD-2

CD-5

Region 10
1200 Sixth Avenue
Seattle WA 98101

Work

Sampling Plan -

Tomorrow morning

USEPA SF



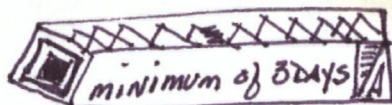
1503787



United States
Environmental Protection
Agency



Region 10
1200 Sixth Avenue
Seattle WA 98101



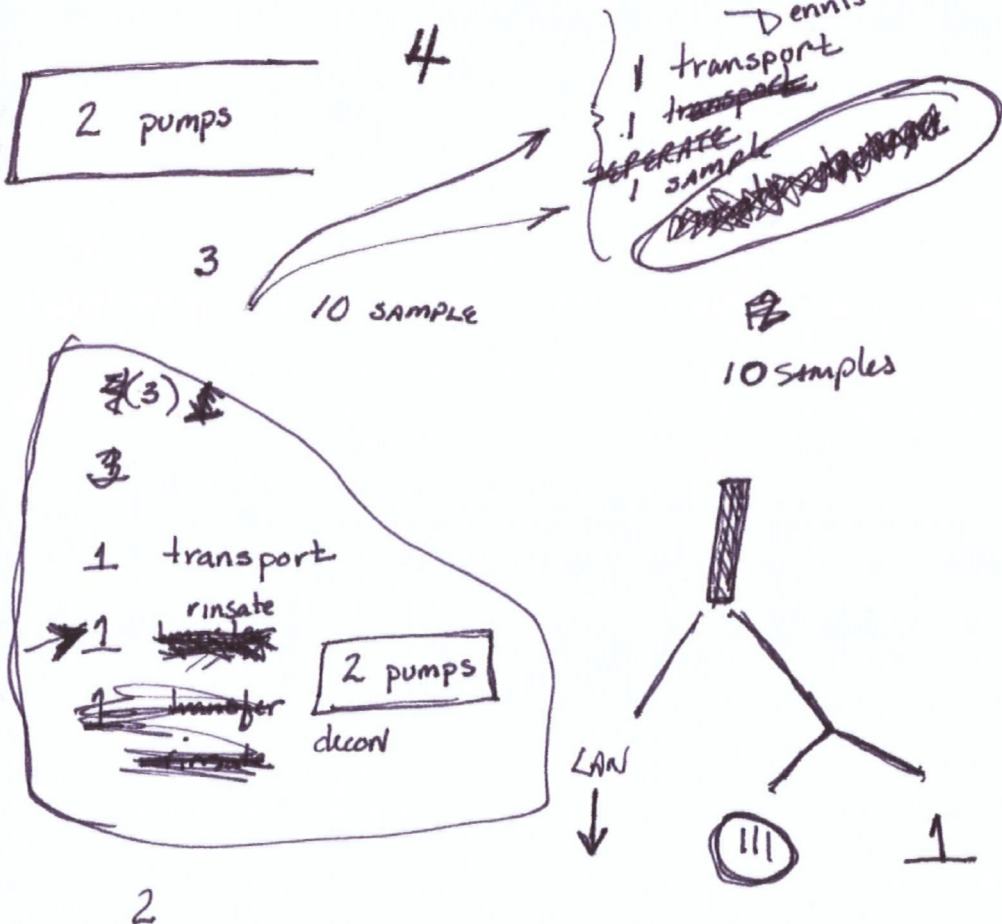
LATE ON 15th
EARLY 16th
SEND 17th

Time delays - at EACH CLUSTER -

more than one sample at a particular cluster

NON-DEDICATED PUMP

C CLUSTER - LOW
- MOD to HIGH





United States
Environmental Protection
Agency

Region 10
1200 Sixth Avenue
Seattle WA 98101

4 Target wells that have hits

ND

MEDIUM
duplicate

HIGH

health threat — towards drinking
water wells

duplicate from same bailer

\$

TCA, DCE, DCA, TCE, PCE,

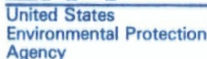
MC, METHOD 8010 or equivalent

PW-3

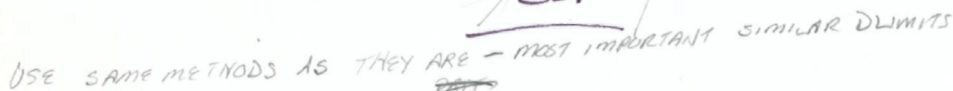
detection limit
~~method~~

gc method lower detection limits

have to go SAS to get lower detection limits

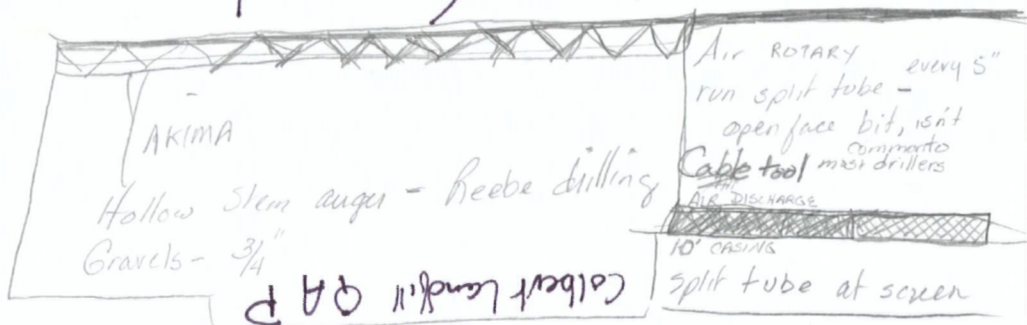


Region 10
1200 Sixth Avenue
Seattle WA 98101



Cooper Consultants 85-86

R.I 3 sampling rounds
Private ~~to~~ IDAD



FROM QAP RI/GOLBERT

method QAP38

053 0532

Section No. 11
Revision No. 0
Date February 11, 1985
Page 1 of 3

po
match all
reporting units
included

simple sample plan
dates/times/wells
sampling for VOCs/
bottles thru E+E

typical split plan. Dennis

INTERNAL QUALITY CONTROL CHECK

Chemistry *Martha Manetta*

Key to the success of the Investigation is defensible analytical data on groundwater and soils within and around the site. The program developed for internal quality control checks and assessments involves:

- (1) Establishing field blanks, splits, and spikes which include:
 - o 10 percent of the collected samples will be split and given a unique identification
 - o 10 percent of the collected samples will be split and known quantities of target parameters will be added to one of the splits of the pair.
 - o A number (5 percent of the number of collected samples) of field blank (distilled water or deionized water) will be established and sent for analysis.
 - o A number (5 percent of the number of collected samples) of procedural blanks will be established for assessing equipment cleaning procedures.
- (2) Requiring the contracted laboratory to run a minimum percentage of duplicates and recovery spikes which include:
 - o 7 percent duplicate and 3 percent triplicate analysis of received samples for precision.
 - o 10 percent recovery spikes in split samples of analytical parameters being analyzed within these samples.
 - o 10 percent recovery spikes in distilled or deionized water of analytical parameters being analyzed.
- (3) Utilizing a second laboratory on a minimum percentage of field splits to compare results with the primary laboratory.
 - o 5 percent of the collected samples will be split and sent to a second laboratory for analysis of same parameters